Patent Abstracts of Japan

PUBLICATION NUMBER : 2001117895
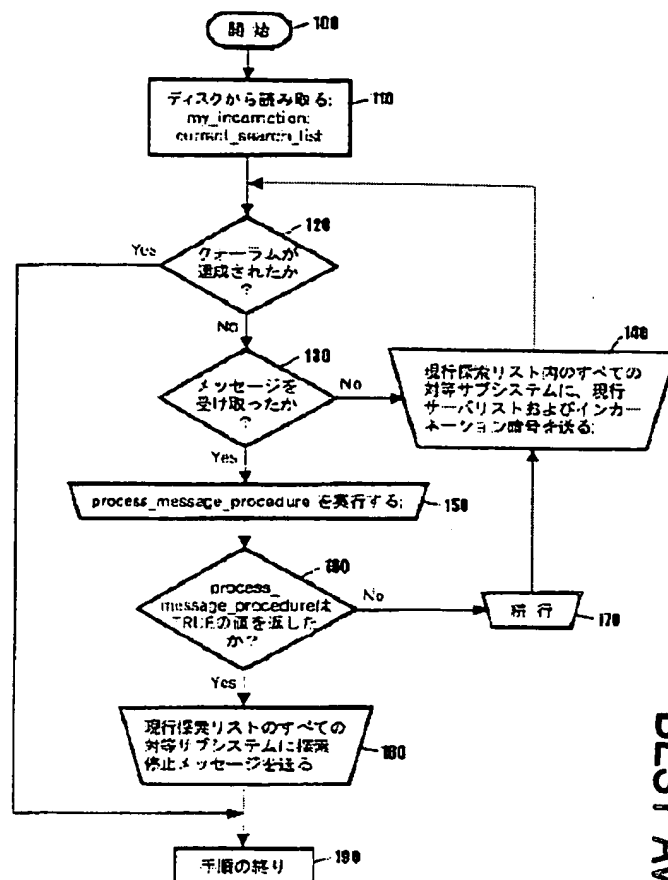PUBLICATION DATE : 27-04-01

APPLICATION DATE : 28-08-00
APPLICATION NUMBER : 2000257208

APPLICANT : INTERNATL BUSINESS MACH CORP <IBM>;

INVENTOR : MARKOS N NOVAES;

INT.CL. : G06F 15/177

TITLE : METHOD AND SYSTEM FOR JUDGING QUORUM NUMBER IN DISTRIBUTED COMPUTING SYSTEM AND STORAGE DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To provide the dynamic re-configuration of a quorum group of a processor and its recovery procedure for a non-shared distributed computing system.

SOLUTION: Dynamic re-configuration is progressed when it is assumed that the remaining processors of a quorum number exist even when at least one processor of the quorum group of the processors is usage impossible. A recovery processing is executed by the group of the processors and, as the result of it, present state information is obtained in at least one of the processors being usage impossible during dynamic re-configuration of the group after it becomes active. The respective processors of the processor group include an incarnation number and the list of member processors which attend a commitment processing for giving the incarnation number.